

SYSTEM **P**LANNING & **A**NALYSIS **R**EPORT

S-4

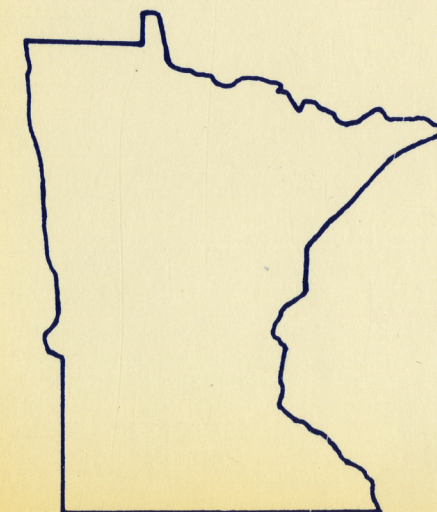
T. H. 61

T. H. 494 TO CO. RD. F

S. P. 6247-01

MARCH, 1970

PREPARED BY
OFFICE OF SYSTEM PLANNING



**MINNESOTA
DEPARTMENT
OF HIGHWAYS**

DEPARTMENT HIGHWAY - Statewide Plan. - Rm. 807

Office Memorandum

TO : Paul G. Velz
Road Design Engineer

DATE: March 23, 1970

FROM : Morris Gildemeister, Chief
Statewide Planning Section

SUBJECT: T.H. 61, T.H. 494 to Co. Rd. F
S.P. 6247-01
System Planning & Analysis Report S-4

The Statewide Planning Section transmits this report in response to R. T. Peterson's request for the 1985 ADT, DHV, and HCADT for the project location shown on the map on page 2.

The estimated 1985 one-way ADT volumes are shown on the map on page 3.

For each segment numbered on the map on page 3, the following data are tabulated on pages 4 - 11:

- (a) Total one-way ADT
- (b) Vehicle Type Distribution
- (c) Total HCADT

Segment 1, with a 1985 ADT of 32000, has the highest ADT on the project section of T.H. 61. This segment has a 1968 ADT of 9000 vehicles.

The basic data, method, and assumptions used to prepare this report are presented on page 12.

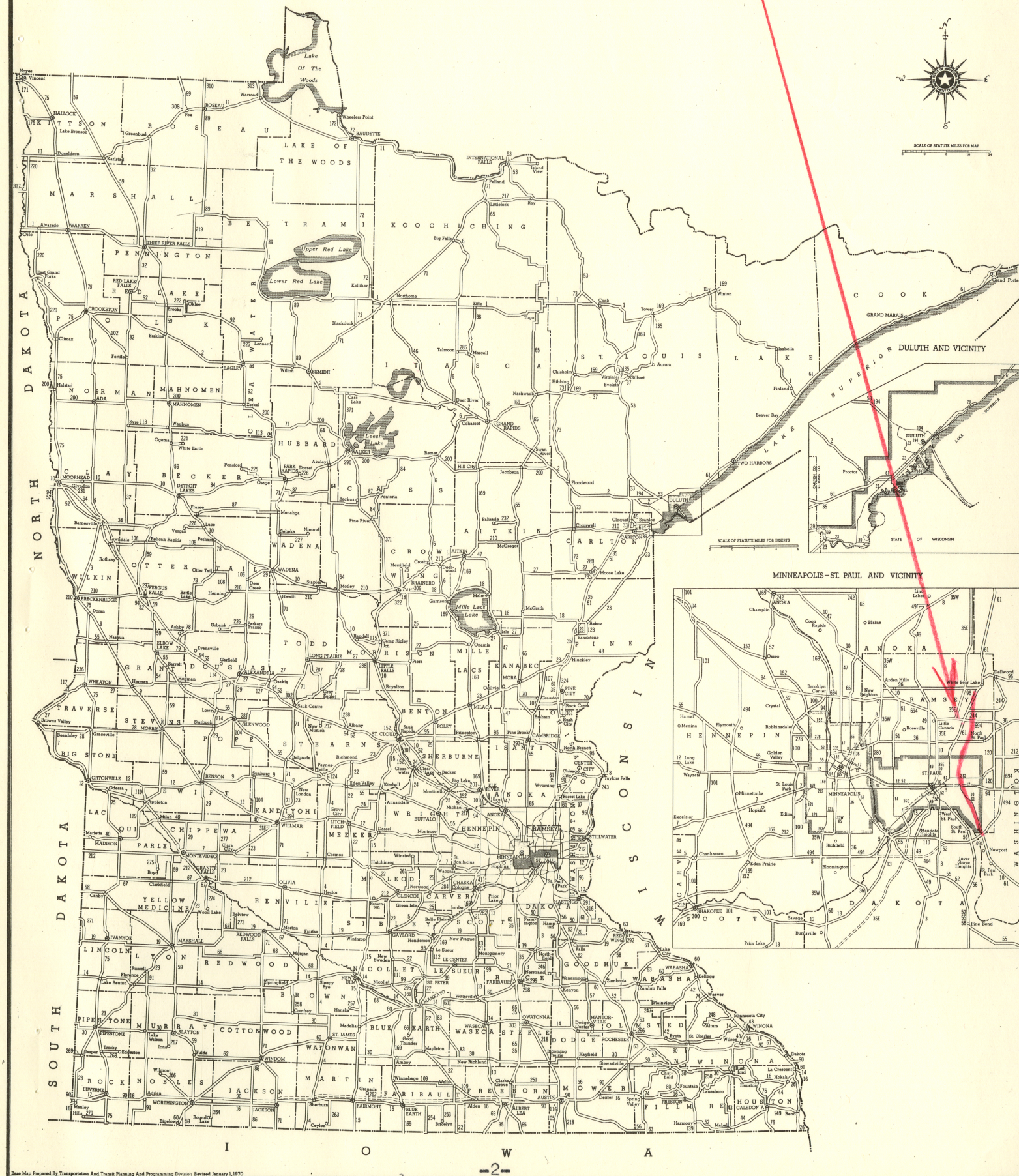
Morris Gildemeister

Morris Gildemeister, Chief
Statewide Planning Section

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STATE OF MINNESOTA
DEPARTMENT OF HIGHWAYS
WORK MAP

Project Location
S.P. 6247-01



Base Map Prepared By Transportation And Transit Planning And Programming Division, Revised January 1, 1970

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 1 OF 8

FOR

T.H. 61 S.P. 6247-01 LENGTH ---- MILES
COUNTY Ramsey LOCATION T.H. 494 to Co. Rd. F

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
0	30349	12764	5153	36744	22316	6817	19249	287	6559	17723	4115
1	787	348	164	770	476	110	385	6	141	362	95
2	148	65	32	505	417	55	106	3	58	151	17
3	92	40	19	74	42	11	44	-	17	47	13
4	181	80	36	223	139	40	105	1	27	93	17
5	318	162	77	464	233	146	225	1	81	151	30
6	125	41	19	120	77	21	86	2	17	73	13
TOTAL ADT	32000	13500	5500	38900	23700	7200	20200	300	6900	18600	4300
TOTAL H. COMM. ADT	1651	736	347	2156	1384	383	951	13	341	877	185
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
 2 = SINGLE UNIT-3 AXLE TRUCKS
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
 6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 2 OF 8

FOR

T.H. 61 S.P. 6247-01 LENGTH ---- MILES
COUNTY Ramsey LOCATION T.H. 494 to Co. Rd. F

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 12 THROUGH 22 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	12	13	14	15	16	17	18	19	20	21	22
0	17820	864	18108	672	18202	2810	18794	288	18890	10289	17917
1	363	18	369	14	371	75	386	6	388	212	380
2	152	8	154	6	156	41	181	3	182	57	179
3	48	1	49	1	48	4	48	-	48	66	46
4	92	2	92	1	93	6	95	1	96	114	92
5	151	4	153	3	154	46	116	1	117	179	110
6	74	3	75	3	76	18	80	1	79	83	76
TOTAL ADT	18700	900	19000	700	19100	3000	19700	300	19800	11000	18800
TOTAL H. COMM. ADT	880	36	892	28	898	190	906	12	910	711	883
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
 2 = SINGLE UNIT-3 AXLE TRUCKS
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
 6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 3 OF 8

FOR

T.H. 61 S.P. 6247-01 LENGTH ---- MILES
COUNTY Ramsey LOCATION T.H. 494 to Co. Rd. F

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 23 THROUGH 33 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER											
	23	24	25	26	27	28	29	30	31	32	33	
0	7647	7533	37816	37702	1056	576	384	10709	3973	2292	10006	
1	115	318	582	785	22	12	8	333	169	108	288	
2	89	35	309	255	9	5	4	77	20	13	72	
3	28	23	183	178	2	1	-	20	-	-	20	
4	50	21	479	450	3	2	-	38	-	-	38	
5	62	15	877	830	4	1	1	36	-	-	36	
6	9	55	254	300	4	3	3	87	138	87	40	
TOTAL ADT	8000	8000	40500	40500	1100	600	400	11300	4300	2500	10500	
TOTAL H. COMM. ADT	353	467	2684	2798	44	24	16	591	327	208	494	
TOTAL DHV												
DIRECTIONAL DISTRIBUTION												

* VEHICLE TYPE CODE

- 0= PASSENGER CARS AND 4 TIRE TRUCKS
1= SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2= SINGLE UNIT-3 AXLE TRUCKS
3= TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
- 4= TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5= TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6= BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 4 OF 8

FOR

T.H. 61 S.P. 6247-01 LENGTH ---- MILES
COUNTY Ramsey LOCATION T.H. 494 to Co. Rd. F

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 34 THROUGH 44 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER											
	34	35	36	37	38	39	40	41	42	43	44	
0	1328	1140	10006	3277	2245	9724	1614	1328	9438	15059	5777	
1	65	55	288	94	65	281	39	33	275	504	200	
2	7	5	72	63	44	67	8	7	66	94	24	
3	-	-	20	10	7	19	3	2	18	48	7	
4	-	-	38	14	10	36	5	5	36	50	30	
5	-	-	36	14	9	35	12	9	32	66	24	
6	-	-	40	28	20	38	19	16	35	279	138	
TOTAL ADT	1400	1200	10500	3500	2400	10200	1700	1400	9900	16100	6200	
TOTAL H. COMM. ADT	72	60	494	223	155	476	86	72	462	1041	423	
TOTAL DHV												
DIRECTIONAL DISTRIBUTION												

* VEHICLE TYPE CODE

- 0= PASSENGER CARS AND 4 TIRE TRUCKS
1= SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2= SINGLE UNIT-3 AXLE TRUCKS
3= TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
- 4= TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5= TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6= BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 5 OF 8

FOR

T.H. 61 S.P. 6247-01 LENGTH ----- MILES
COUNTY Ramsey LOCATION T.H. 494 to Co. Rd. F

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 45 THROUGH 55 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	45	46	47	48	49	50	51	52	53	54	55
0	2458	11740	9064	960	1344	8872	672	864	8680	1056	1344
1	70	374	263	20	28	259	14	18	255	22	28
2	17	87	64	9	12	63	6	8	61	10	13
3	9	50	18	1	2	17	1	1	17	1	1
4	5	25	34	2	3	33	1	1	33	2	3
5	8	50	30	4	6	30	3	4	29	4	6
6	33	174	27	4	5	26	3	4	25	5	5
TOTAL ADT	2600	12500	9500	1000	1400	9300	700	900	9100	1100	1400
TOTAL H. COMM. ADT	142	760	436	40	56	428	28	36	420	44	56
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

- 0 = PASSENGER CARS AND 4 TIRE TRUCKS
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
 2 = SINGLE UNIT-3 AXLE TRUCKS
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
 6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 6 OF 8

FOR

T.H. 61 S.P. 6247-01 LENGTH ----- MILES
COUNTY Ramsey LOCATION T.H. 494 to Co. Rd. F

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 56 THROUGH 66 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	56	57	58	59	60	61	62	63	64	65	66
0	8584	6601	7346	6509	1344	1536	6317	2945	3330	5732	960
1	253	224	259	160	28	32	156	87	94	149	20
2	60	35	42	47	13	15	45	16	18	43	9
3	17	35	37	11	1	1	11	12	13	10	1
4	32	28	34	20	3	4	19	12	13	18	2
5	29	35	35	35	6	7	34	12	14	32	4
6	25	42	47	18	5	5	18	16	18	16	4
TOTAL ADT	9000	7000	7800	6800	1400	1600	6600	3100	3500	6000	1000
TOTAL H. COMM. ADT	416	399	454	291	56	64	283	155	170	268	40
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

- 0 = PASSENGER CARS AND 4 TIRE TRUCKS
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 6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 7 OF 8

FOR

T.H. 61 S.P. 6247-01 LENGTH ---- MILES
COUNTY Ramsey LOCATION T.H. 494 to Co. Rd. F

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 67 THROUGH 77 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER										
	67	68	69	70	71	72	73	74	75	76	77
0	960	5732	1422	961	17577	14239	3737	860	7946	4699	576
1	20	149	39	27	324	242	102	32	217	118	14
2	9	43	10	6	41	23	19	5	51	34	4
3	1	10	3	1	48	43	3	-	9	5	1
4	2	18	8	1	107	86	14	-	23	10	1
5	4	32	16	2	284	252	18	-	32	20	2
6	4	16	2	2	19	15	7	3	22	14	2
TOTAL ADT	1000	6000	1500	1000	18400	14900	3900	900	8300	4900	600
TOTAL H. COMM. ADT	40	268	78	39	823	661	163	40	354	201	24
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
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TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 8 OF 8

FOR

T.H. 61 S.P. 6247-01 LENGTH ---- MILES
COUNTY Ramsey LOCATION T.H. 494 to Co. Rd. F

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 78 THROUGH 85 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER									
	78	79	80	81	82	83	84	85		
0	5734	8515	3823	7045	10868	960	1345	10483		
1	121	191	113	250	363	20	28	355		
2	45	65	21	46	67	9	11	65		
3	4	7	5	7	12	1	1	12		
4	5	11	14	15	29	2	3	28		
5	23	35	14	15	29	4	6	27		
6	68	76	10	22	32	4	6	30		
TOTAL ADT	6000	8900	4000	7400	11400	1000	1400	11000		
TOTAL H. COMM. ADT	266	385	177	355	532	40	55	517		
TOTAL DHV										
DIRECTIONAL DISTRIBUTION										

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
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 2 = SINGLE UNIT-3 AXLE TRUCKS
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Basic Data, Method, and Assumptions

The 1985 ADT and DHV were transmitted on November 20, 1969 in TAS 668-14.

The heavy commercial ADT agree with the System 14 computer truck study. Vehicle type distributions are based on classification counts taken on roads with similar characteristics as those of the study project.

The 1999 ADT may be obtained by expanding 1985 volumes presented in this report by 40%.